

REMARKS

The applicant's remarks, set forth below, are preceded by related comments of the Examiner set forth in small indented bold-faced type.

Examiner's Amendment

- 4 The application has been amended
as follows: Claim 39 deleted.**

The undersigned acknowledges the Examiner's deletion of claim 39.

Drawings

- 6. Acknowledgement is made of receipt of new drawings for Figures 11-14 on September 8, 2004.**

Modifications to the drawings to be made are as follows:

- 1. Deleted Figure 2.**
- 2. Renumber Figures 3 to 5 consecutively.**
- 3. Delete Figure 6.**
- 4. Insert figure entitled "First Example, translation" from interview as Figure 5.**
- 5. Insert Figure entitled "selection of edges and their traces in the first Zone" from interview as Figure 6.**
- 6. Insert Figure entitled "First zone of an edge: comprises ..." from interview as Figure 7.**
- 7. Insert Figure entitled "edge not moving in the first zone" from interview as Figure 8.**
- 8. Insert Figure entitled "resulting set of kept traces" from interview as Figure 9.**
- 9. Insert Figure entitled "Triangle moving in second zone" from interview as Figure 10.**
- 10. Insert Figure entitled "selection of triangles moving in second Zone" from interview as Figure 11.**
- 11. Insert Figure entitled "Resulting set of kept triangles" from interview as Figure 12.**
- 12. Insert Figure entitled "resulting swept volume" from interview as Figure 13.**
- 13. Renumber Figures 7 to 14 starting with new Figure number 14.**

The undersigned has deleted Fig. 2 and 6 as requested by the Examiner.

The undersigned has also added the drawings as identified in ¶¶ 6.4 – 6.12 of the Office Action.

The undersigned notes that, in inserting the drawings identified in ¶¶ 6.4-6.12 of the Office Action, the undersigned has adopted a different numbering scheme than what was suggested by

the Examiner. In particular, the undersigned has inserted the figures requested in ¶¶ 6.4-6.11 as Figs. 6A – 6H, and the resulting swept volume figure of ¶ 6.12 as Fig. 2. The undersigned has adopted this alternate numbering scheme to avoid errors that may be introduced by the extensive re-editing of the document that would be required if all figures were renumbered in accordance with the Examiner's suggestion. The undersigned respectfully requests that the examiner accept the inserted figures as now numbered; however, if the examiner has an objection to the numbering scheme adopted by the undersigned, the undersigned welcomes a call from the Examiner to discuss alternate numbering schemes.

Specification

7. The following rewrites are required in the specification:
- Change Page 1, Para 2, Line 2,
 - Change Page 1, Para 3, Lines 4-5,...
 - Change Page 2, Para 2, Lines 3-6, ...
 - Insert a definition of free neighborhood after Page 2, Paragraph 2 as ...
 - Rewrite Page 2, Para 3 as follows:
 - Change Page 2, Para 7, Line 4, ...
 - Page 3: Rewrite BRIEF DESCRIPTION OF DRAWINGS ...
 - In Page 5, delete Paragraphs 2 and 3.
 - Rewrite Page 6, Para 2
 - In Page 7, Para 4, change ...
 - Rewrite Page 7, Para 5 as follows ...
 - Rewrite Page 7, Para 6 as follows ...
 - Delete Page 7, Para 7 and add brief descriptions for new Figures 5 to 13 ...

The changes requested by the Examiner have been made with the exception that the text to be rewritten at page 2 ¶ 3 was further amended to remove a technical error in the text suggested by the Examiner.

In new Figures 14 to 21, change the numbering of various items to reflect the new figure numbers. Update the specification Pages 7-10, to reflect the new Figure numbers and the numbers for the various items.

The undersigned has inserted the new Figures as Figs. 2 and 6A-6H and 6. The undersigned respectfully submits that this numbering scheme incorporates the substance of what was

requested by the Examiner without requiring excess editing that may introduce errors into the figures and specification. If this is unacceptable to the Examiner, the undersigned will further renumber the Figures and specification in accordance with the Examiner's original suggestion.

In the new Figure entitled, "Resulting swept volume", two lines cross inside the swept volume. The same is shown in the old Fig. 9. Describe briefly, how this portion of the lines inside the swept volume is deleted, while describing the new Figure entitled, "Resulting swept volume".

With regard to the two lines crossing inside the "Resulting swept volume" it is not necessary that such lines be deleted. It is respectfully submitted that the resulting swept volume is a useful approximation of the outer boundary occupied by a moving object. Any computed lines that may enter the interior to the boundary do not prevent a useful computation of this outer boundary as the outer boundary is still preserved. However, it is respectfully submitted that, in the event a particular implementation chooses to further refine the swept volume computed in accordance with this invention by eliminating such lines, the teachings known to one of reasonable skill in the arts would enable implementation of algorithms to determine lines extending to the interior of a bounded area.

The figure "Resulting swept volume" has been described in the brief description of the drawings.

CONCLUSION

Claims 25, 28, 30, 31, 33, 35, 36, and 38-42 are now pending.

Accordingly, it is respectfully submitted that all pending claims are in condition for allowance and fully supported by the specification. Applicants respectfully requests that all pending claims be allowed.

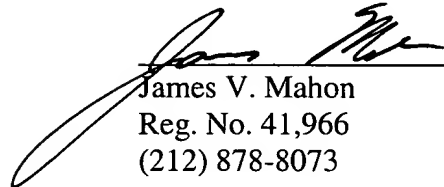
Application No. 09/329,889
Reply to Office Action dated December 14, 2004

Please apply any credits or excess charges to our deposit account number 50-0521.

Respectfully submitted,

Date:

Jan 25, 2005


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AMENDMENTS TO THE DRAWINGS

At the request of the examiner, Figs. 2 and 6 have been deleted. Drawing sheets showing Figs. 2 and 6A through 6H have been added at the request of the Examiner. The undersigned has conferred with the Examiner regarding the addition of these sheets and the Examiner stated that the substance of these sheets was described in existing text and drawings and, accordingly these added sheets provided mere clarification of the existing disclosure and, as such, do not constitute new matter.